SUMMARY OF RESPONSE

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The Examiner states: "Claims 10, 12-13, 18 and 20-22 are rejected under 35 U.S.C. 112, second

paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject

matter which applicant regards as the invention.

In claim 10, line 5; applicant recites the feature "dimples in direct contact with the heating surface

of the heating device'. The specification only teaches dimples such that it's meaning to one of

ordinary skill in the ad is an indentation or a depression on a surface. It is not clear how an

indentation or a depression can be in direct contact with the heating surface? Clarification is

needed to understand the meaning of claim 10. The same applies to claim 18.

In claim 12, line 2; applicant recites the feature "dimples each have a height between about 1 mil

and about 24 mils". Again, it is not clear how an indentation or a depression can have a height?

Clarification is needed to understand the meaning of claim 12. The same applies to claim 13.

In claim 20, lines 3-4; applicant recites the feature "dimples extending therefrom and in direct

contact with a heating surface in an insecticidal vaporizer". Again, it is not clear how a depression

can be extending and in direct contact with a heating surface?

Clarification is needed to understand the meaning of claim 10. The same applies to claim 20. The

same applies to claim 21.

In claim 22, line 2; applicant recites the feature 'dimples extend completely over the exterior

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bottom surface." The meaning of this limitation is not clear. Does the applicant mean that dimples cover the exterior bottom surface of the container or dimples extending from the exterior bottom

surface of the container? Clarification is needed to understand the meaning of claim 22."

Claim Rejections - 35 USC § 103

2. The Examiner states: "The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1,

148 USPQ 459 (1966), that are applied for establishing a background for determining

obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.

2. Ascertaining the differences between the prior art and the claims at issue.

3. Resolving the level of ordinary skill in the pertinent art.

4. Considering objective evidence present in the application indicating obviousness or

nonobviousness."

3. The Examiner states: "Claims 10-22 are rejected under 35 U.S.C. 103(a) as being unpatentable

over Flashinski et al (U.S.P.N. 6,031,967) in view of Barnhart (U.S.P.N. 6,413,476) and further

in view of Schiebelhuth (U.S.P.N. 5,283,854).

With respect to claims 10, 18 and 20-21, the Flashinski reference teaches a heat-regulating

container (14) for dispensing insecticides (26) into an atmosphere including the following: a heat-

regulating container (14) having a flat reservoir with insecticide (22), an interior bottom surface

with interior side walls (unlabeled inner surface of 22), exterior outer surface of a lower surface

(32), the interior surface of the lower surface (unlabeled inner surface of 22) of the reservoir

portion (22). See col.4, lines 34-37, which teaches that the entire container is made from one

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piece with projections in figure 5 extending from the interior surface of the unlabeled lower

surface of the container. The reservoir having a plurality of leg-like projections (col.4, lines 21-

23), a heating device (10) with a heating surface (12) at elevated temperature adapted to receive

the heat-regulating container (14) and the leg-like projections defining several air gaps (col.4,

lines 34-37) between the lower surface of the reservoir portion and the heating surface of the

heating device (10) for regulating heat transfer from the heating surface (figure 4: 12) to the

volatile material (figure 4:26). The Flashinski reference teaches convective heating, but fails to

disclose that the leg-like projections are in direct contact with a heating surface and the exterior

surface of the bottom is dimpled. The Barnhart reference discloses a container (3) whose bottom

surface is in direct contact with the heating surface (6) in order to regulate the heat transfer from

the heating surface to the volatile material (102) in the container. Thus, it would have been

obvious to one having ordinary skill in the art at the time the invention was made to substitute the

known convective heating means of the Flashinski reference with the known conductive heating

means of the Barnhart reference since such a substitution makes the heating surface closer to the

insecticide material for faster dispensing.

With respect to claims 10, 18 and 20-21, the Barnhart reference fails to teach that exterior surface

of the bottom of the container is dimpled; however, the Schiebelhuth reference, which is in the art

of regulating direct heat for heating container, teaches a container (figure 3: 9) that its exterior

bottom surface includes an indentation, i.e., a dimple (figure 3: 23). In addition, if one to look

upside down at figure 1, of the Schiebelhuth reference, then 23 is a dimple. Thus, it would have

been obvious to one having ordinary skill in the art at the time the invention was made to modify

the container of the of the Flashinski reference by substituting the leg-like projections in the

bottom of the container with indentations, i.e., dimples as taught by Schiebelhuth reference so

that the spatial arrangement of the abutment surface and the electric heating element are not

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congruent (col.8, lines 29-43).

With respect to claim 11, the Flashinski reference and the Barnhart reference both fail to that the

exterior surface of the bottom is dimpled. The Schiebelhuth reference, which is in the art of

regulating direct heat for heating container, teaches a container (figure 3: 9) that its exterior

bottom surface includes an indentation, i.e., a dimple (figure 3: 23). In addition, if one to look

upside down at figure 1 of the Schiebelhuth reference, then 23 is a dimple. Thus, it would have

been obvious to one having ordinary skill in the art at the time the invention was made to modify

the container of the of the Flashinski reference by substituting the leg-like projections in the

bottom of the container with an indentation, i.e., dimple as taught by Schiebelhuth reference so

that the spatial arrangement of the abutment surface and the electric heating element are not

congruent (col.8, lines 29-43).

With respect to claims 12-13, the Flashinski reference and the Barnhart reference both fail to

disclose that the exterior surface of the bottom is dimpled. The Schiebelhuth reference, which is

in the art of regulating direct heat for heating container, teaches a container (figure 3: 9) that its

exterior bottom surface includes an indentation, i.e., a dimple (figure 3: 23). The indentation

(figure 3: 22) has an intrinsic height such that the numbers and the heights of the dimples is a

matter of design choice that is well within the scope of the artisan, In addition, if one to look

upside down at figure 1, of the Schiebelhuth reference, then 23 is a dimple. Thus, it would have

been obvious to one having ordinary skill in the art at the time the invention was made to modify

the container of the of the Flashinski reference by substituting the leg-like projections in the

bottom of the container with indentations, i.e., dimples as taught by Schiebelhuth reference so

that the spatial arrangement of the abutment surface and the electric heating element are not

congruent (col. B, lines 29-43).

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With respect to claims 14-16, the Flashinski reference teaches the following: the closure means

includes an impermeable film (col.3, lines 4-5), the closure means includes a semi permeable

membrane (col.2, line 65) and the closure means includes a permeable membrane (col.2, line 65).

With respect to claim 17, the Flashinski reference teaches the container (22) includes a volatile

insecticide material (26).

With respect to claim 19, the Flashinski reference and the Barnhart reference both fail to that the

exterior surface of the bottom of the container is dimpled. The Schiebelhuth reference, which is in

the art of regulating direct heat for heating container, teaches a container (figure 3: 9) that its

exterior bottom surface includes an indentation, i.e., dimple (figure 3: 23). In addition, if one to

look upside down at figure 1, of the Schiebelhuth reference, then 23 is a dimple. Thus, it would

have been obvious to one having ordinary skill in the art at the time the invention was made to

modify the container of the of the Flashinski reference by substituting the leg-like projections in

the bottom of the container with indentations, i.e., dimples as taught by Schiebelhuth reference so

that the spatial arrangement of the abutment surface and the electric heating element are not

congruent (col.8, lines 29-43).

With respect to claim 22, the Flashinski reference teaches a series (uniformly-distributed) of leg-

like projections (in col.4, lines 21-23) such that the projections (30) extend from completely over

the exterior bottom surface (32), but fails to teach that the exterior surface of the bottom of the

container is dimpled. The Barnhart reference discloses a flat bottom container and fails to teach

that the exterior surface of the bottom of the container is dimpled. The Schiebelhuth reference,

which is in the art of regulating direct heat for heating container, teaches a container (figure 3: 9)

that its exterior bottom surface includes an indentation, i.e., dimple (figure 3: 23). In addition, if

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one to look upside down at figure 1, of the Schiebelhuth reference, then 23 is a dimple. Thus, it

would have been obvious to one having ordinary skill in the art at the time the invention was

made to modify the container of the of the Flashinski reference by substituting the leg-like

projections in the bottom of the container with indentations, i.e., dimples as taught by

Schiebelhuth reference so that the spatial arrangement of the abutment surface and the electric

heating element are not congruent (col.8, lines 29-43)."

4. The Examiner states: "Claims 10-22 are rejected under 35 U.S.C. 103(a) as being unpatentable

over Flashinski et al (U.S.P.N. 6,031,967) in view of Encyclopedia Britannica Online and further

in view of Schiebelhuth (U.S.P.N. 5,283,854).

With respect to claims 10, 18 and 20-21, the Flashinski reference teaches a heat-regulating

container (14) for dispensing insecticides (26) into an atmosphere including the following: a heat-

regulating container (14) having a flat reservoir with insecticide (22), an interior bottom surface

with interior side walls (unlabeled inner surface of 22), exterior outer surface of a lower surface

(32), the interior surface of the lower surface (unlabeled inner surface of 22) of the reservoir

portion (22). See col.4, lines 34-37, which teaches that the entire container is made from one

piece with projections in figure 5 extending from the interior surface of the unlabeled lower

surface of the container. The reservoir having a plurality of leg-like projections (col.4, lines 21-

23), a heating device (10) with a heating surface (12) at elevated temperature adapted to receive

the heat-regulating container (14) and the leg-like projections defining several air gaps (col.4,

lines 34-37) between the lower surface of the reservoir portion and the heating surface of the

heating device (10) for regulating heat transfer from the heating surface (figure 4:12) to the

volatile material (figure 4:26). The Flashinski reference teaches convective heating, but fails to

disclose that the leg-like projections are in direct contact with a heating surface (i.e., conductive

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heating) and the exterior surface of the bottom is dimpled. The Encyclopedia Britannica discloses

three known means of heating an object that are conduction, convection and radiation. Therefore,

it would have been obvious to one having ordinary skill in the art to substitute the known

convective heating means of the Flashinski reference with the known conductive heating means

of Encyclopedia Britannica since such a substitution result in moving the heat from one object

directly to another object (Encyclopedia Britannica Online, line 13).

With respect to claims 10, 18 and 20-21, the Encyclopedia Britannica reference fails to teach that

exterior surface of the bottom of the container is dimpled; however, the Schiebelhuth reference,

which is in the art of regulating direct heat for heating container, teaches a container (figure 3: 9)

that its exterior bottom surface includes an indentation, i.e., a dimple (figure 3: 23). In addition, if

one to look upside down at figure 1, of the Schiebelhuth reference, then 23 is a dimple. Thus, it

would have been obvious to one having ordinary skill in the art at the time the invention was

made to modify the container of the of the Flashinski reference by substituting the leg-like

projections in the bottom of the container with indentations, i.e., dimples as taught by

Schiebelhuth reference so that the spatial arrangement of the abutment surface and the electric

heating element are not congruent (col.8, lines 29-43).

With respect to claim 11, the Flashinski reference and the Encyclopedia Britannica reference both

fail to that the exterior surface of the bottom is dimpled. The Schiebelhuth reference, which is in

the art of regulating direct heat for heating container, teaches a container (figure 3: 9) that its

exterior bottom surface includes an indentation, i.e., a dimple (figure 3:23). In addition, if one to

look upside down at figure 1, of the Schiebelhuth reference, then 23 is a dimple. Thus, it would

have been obvious to one having ordinary ~kill in the art at the time the invention was made to

modify the container of the of the Flashinski reference by substituting the leg-like projections in

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the bottom of the container with an indentation, i.e., dimple as taught by Schiebelhuth reference

so that the spatial arrangement of the abutment surface and the electric heating element are not

congruent (col.8, lines 29-43).

With respect to claims 12-13, the Flashinski reference and the Encyclopedia Britannica reference

both fail to disclose that the exterior surface of the bottom is dimpled. The Schiebelhuth

reference, which is in the art of regulating direct heat for heating container, teaches a container

(figure 3: 9) that its exterior bottom surface includes an indentation, i.e., a dimple (figure 3: 23).

The indentation (figure 3: 22) has an intrinsic height such that the numbers and the heights of the

dimples is a matter of design choice that is well within the scope of the artisan. In addition, if one

to look upside down at figure 1, of the Schiebelhuth reference, then 23 is a dimple. Thus, it would

have been obvious to one having ordinary skill in the art at the time the invention was made to

modify the container of the of the Flashinski reference by substituting the leg-like projections in

the bottom of the container with indentations, i.e., dimples as taught by Schiebelhuth reference so

that the spatial arrangement of the abutment surface and

With respect to claims 14-16, the Flashinski reference teaches the following: the closure means

includes an impermeable film (col.3, lines 4-5), the closure means includes a semi permeable

membrane (col.2, line 65) and the closure means includes a permeable membrane (col.2, line 65).

With respect to claim 17, the Flashinski reference teaches the container (22) includes a volatile

insecticide material (26).

With respect to claim 19, the Flashinski reference and the Encyclopedia Britannica reference both

fail to that the exterior surface of the bottom of the container is dimpled. The Schiebelhuth

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reference, which is in the art of regulating direct heat for heating container, teaches a container

(figure 3: 9) that its exterior bottom surface includes an indentation, i.e., dimple (figure 3: 23). In

addition, if one to look upside down at figure 1, of the Schiebelhuth reference, then 23 is a

dimple. Thus, it would have been obvious to one having ordinary skill in the art at the time the

invention was made to modify the container of the of the Flashinski reference by substituting the

leg-like projections in the bottom of the container with indentations, i.e., dimples as taught by

Schiebelhuth reference so that the spatial arrangement of the abutment surface and the electric

heating element are not congruent (col.8, lines 29-43).

With respect to claim 22, the Flashinski reference teaches a series (uniformly distributed) of leg-

like projections (in col.4, lines 21-23) such that the projections (30) extend from completely over

the exterior bottom surface (32), but fails to teach that the exterior surface of the bottom of the

container is dimpled. The Encyclopedia Britannica reference fails to teach that the exterior

surface of the bottom of the container is dimpled. The Schiebelhuth reference, which is in the art

of regulating direct heat for heating container, teaches a container (figure 3: 9) that its exterior

bottom surface includes an indentation, i.e., dimple (figure 3: 23). In addition, if one to look

upside down at figure 1, of the Schiebelhuth reference, then 23 is a dimple. Thus, it would have

been obvious to one having ordinary skill in the art at the time the invention was made to modify

the container of the of the Flashinski reference by substituting the leg-like projections in the

bottom of the container with indentations, i.e., dimples as taught by Schiebelhuth reference so

that the spatial arrangement of the abutment surface and the electric heating element are not

congruent (col.8, lines 29-43)."

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Response To Arguments

5. The Examiner states: "Applicant's arguments filed on 04/14/2005 have been fully considered but

they are not persuasive.

On page 12 of the Response section; applicant argues that, "the cited prior art references fail to

teach a fiat reservoir with a dimpled lower surface for volatilizing insecticides." The newly

applied reference, the Schiebelhuth, which is in the art of regulating direct heat for heating

containers, teaches a container (figure 3: 9) that its exterior bottom surface includes an

indentation, i.e., a dimple (figure 3: 23). In addition, if one to look upside down at figure 1, of the

Schiebelhuth reference, then 23 is a dimple. Thus, it would have been obvious to one having

ordinary skill in the art at the time the invention was made to modify the container of the of the

Flashinski reference by substituting the leg-like projections in the bottom of the container with

indentations, i.e., dimples as taught by Schiebelhuth reference so that the spatial arrangement of

the abutment surface and the electric heating element are not congruent (col.8, lines 29-43)."

Conclusion

6. The Examiner states: "The prior art made of record and not relied upon is considered pertinent to

applicant's disclosure. The Newsham reference (U.S.P.N. 14,271), the Legeros reference

(U.S.P.N. 2,070,439) and the Adams reference (U.S.P.N. 3,466,424) all discloses dimpled bottom

surfaces. The references are all in the art of heating."

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